

0590
1005

(2)

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/880,149

DATE: 07/05/2001

TIME: 13:34:53

Input Set : A:\2757-5.app.txt

Output Set: N:\CRF3\07032001\I880149.raw

3 <110> APPLICANT: Kenten, John
4 Roberts, Steven
6 <120> TITLE OF INVENTION: CONTROLLING PROTEIN LEVELS IN EUCARYOTIC ORGANISMS
8 <130> FILE REFERENCE: 2757-5
C--> 10 <140> CURRENT APPLICATION NUMBER: US/09/880,149
11 <141> CURRENT FILING DATE: 2001-06-14
13 <150> PRIOR APPLICATION NUMBER: 09/406,781
14 <151> PRIOR FILING DATE: 1999-09-28
16 <150> PRIOR APPLICATION NUMBER: 60/119,851
17 <151> PRIOR FILING DATE: 1999-02-12
19 <160> NUMBER OF SEQ ID NOS: 67
21 <170> SOFTWARE: PatentIn Ver. 2.1
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 20
25 <212> TYPE: PRT
26 <213> ORGANISM: Unknown Organism
28 <220> FEATURE:
29 <223> OTHER INFORMATION: Description of Unknown Organism: PEST example
30 sequence
32 <400> SEQUENCE: 1
33 Met Glu Phe Met His Ile Ser Pro Pro Glu Pro Glu Ser Glu Glu Glu
34 1 5 10 15
36 Glu Glu His Ser
37 20
40 <210> SEQ ID NO: 2
41 <211> LENGTH: 10
42 <212> TYPE: PRT
43 <213> ORGANISM: Unknown Organism
45 <220> FEATURE:
46 <223> OTHER INFORMATION: Description of Unknown Organism: PEST example
47 sequence
49 <400> SEQUENCE: 2
50 Met Glu Phe Met His Glu Ser His Ser Ser
51 1 5 10
54 <210> SEQ ID NO: 3
55 <211> LENGTH: 16
56 <212> TYPE: PRT
57 <213> ORGANISM: Unknown Organism
59 <220> FEATURE:
60 <223> OTHER INFORMATION: Description of Unknown Organism: PEST example
61 sequence
63 <400> SEQUENCE: 3
64 Met Glu Phe Met His Ile Ser Pro Pro Glu Pro Glu Ser His Ser Ser
65 1 5 10 15
68 <210> SEQ ID NO: 4
69 <211> LENGTH: 15
70 <212> TYPE: PRT

ENTERED

see page 5

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/880,149

DATE: 07/05/2001

TIME: 13:34:53

Input Set : A:\2757-5.app.txt

Output Set: N:\CRF3\07032001\I880149.raw

```

71 <213> ORGANISM: Unknown Organism
73 <220> FEATURE:
74 <223> OTHER INFORMATION: Description of Unknown Organism: PEST example
75     sequence
77 <400> SEQUENCE: 4
78 Met Glu Phe Met His Glu Ser Glu Glu Glu Glu Glu His Ser Ser
79   1               5               10               15
82 <210> SEQ ID NO: 5
83 <211> LENGTH: 10
84 <212> TYPE: PRT
85 <213> ORGANISM: Unknown Organism
87 <220> FEATURE:
88 <223> OTHER INFORMATION: Description of Unknown Organism: PEST example
89     sequence
91 <400> SEQUENCE: 5
92 Met Glu Ala Ser Glu Glu Glu Glu Phe
93   1               5               10
96 <210> SEQ ID NO: 6
97 <211> LENGTH: 28
98 <212> TYPE: PRT
99 <213> ORGANISM: Unknown Organism
101 <220> FEATURE:
102 <223> OTHER INFORMATION: Description of Unknown Organism: PEST example
103     sequence
105 <400> SEQUENCE: 6
106 His Gly Phe Pro Pro Glu Val Glu Glu Gln Asp Asp Gly Thr Leu Pro
107   1               5               10               15
109 Met Ser Cys Ala Gln Glu Ser Gly Met Asp Arg His
110             20               25
113 <210> SEQ ID NO: 7
114 <211> LENGTH: 28
115 <212> TYPE: PRT
116 <213> ORGANISM: Unknown Organism
118 <220> FEATURE:
119 <223> OTHER INFORMATION: Description of Unknown Organism: PEST example
120     sequence
122 <400> SEQUENCE: 7
123 His Gly Phe Pro Pro Ala Val Ala Ala Gln Asp Asp Gly Thr Leu Pro
124   1               5               10               15
126 Met Ser Cys Ala Gln Glu Ser Gly Met Asp Arg His
127             20               25
130 <210> SEQ ID NO: 8
131 <211> LENGTH: 28
132 <212> TYPE: PRT
133 <213> ORGANISM: Unknown Organism
135 <220> FEATURE:
136 <223> OTHER INFORMATION: Description of Unknown Organism: PEST example
137     sequence
139 <400> SEQUENCE: 8

```

RAW SEQUENCE LISTING

DATE: 07/05/2001

PATENT APPLICATION: US/09/880,149

TIME: 13:34:53

Input Set : A:\2757-5.app.txt

Output Set: N:\CRF3\07032001\I880149.raw

140 His Gly Phe Pro Pro Glu Val Glu Glu Gln Asp Asp Gly Ala Leu Pro
141 1 5 10 15
143 Met Ser Cys Ala Gln Glu Ser Gly Met Asp Arg His
144 20 25
147 <210> SEQ ID NO: 9
148 <211> LENGTH: 28
149 <212> TYPE: PRT
150 <213> ORGANISM: Unknown Organism
152 <220> FEATURE:
153 <223> OTHER INFORMATION: Description of Unknown Organism: PEST example
154 sequence
156 <400> SEQUENCE: 9
157 His Gly Phe Pro Pro Glu Val Glu Glu Gln Asp Asp Gly Thr Leu Pro
158 1 5 10 15
160 Met Ser Cys Ala Gln Glu Ser Gly Met Asp His His
161 20 25
164 <210> SEQ ID NO: 10
165 <211> LENGTH: 28
166 <212> TYPE: PRT
167 <213> ORGANISM: Unknown Organism
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Description of Unknown Organism: PEST example
171 sequence
173 <400> SEQUENCE: 10
174 His Gly Phe Pro Pro Glu Val Glu Glu Gln Asp Val Gly Thr Leu Pro
175 1 5 10 15
177 Met Ser Cys Ala Gln Glu Ser Gly Met Asp Arg His
178 20 25
181 <210> SEQ ID NO: 11
182 <211> LENGTH: 28
183 <212> TYPE: PRT
184 <213> ORGANISM: Unknown Organism
186 <220> FEATURE:
187 <223> OTHER INFORMATION: Description of Unknown Organism: PEST example
188 sequence
190 <400> SEQUENCE: 11
191 His Gly Phe Pro Pro Glu Val Glu Glu Gln Asp Val Gly Thr Leu Pro
192 1 5 10 15
194 Ile Ser Cys Ala Gln Glu Ser Gly Met Asp Arg His
195 20 25
198 <210> SEQ ID NO: 12
199 <211> LENGTH: 28
200 <212> TYPE: PRT
201 <213> ORGANISM: Unknown Organism
203 <220> FEATURE:
204 <223> OTHER INFORMATION: Description of Unknown Organism: PEST example
205 sequence
207 <400> SEQUENCE: 12
208 His Gly Phe Pro Pro Glu Val Glu Glu Gln Asp Ala Ser Thr Leu Pro

RAW SEQUENCE LISTING

DATE: 07/05/2001

PATENT APPLICATION: US/09/880,149

TIME: 13:34:53

Input Set : A:\2757-5.app.txt

Output Set: N:\CRF3\07032001\I880149.raw

```

209      1              5              10              15
211 Val Ser Cys Ala Trp Glu Ser Gly Met Lys Arg His
212              20              25
215 <210> SEQ ID NO: 13
216 <211> LENGTH: 26
217 <212> TYPE: PRT
218 <213> ORGANISM: Unknown Organism
220 <220> FEATURE:
221 <223> OTHER INFORMATION: Description of Unknown Organism: PEST example
222     sequence
224 <400> SEQUENCE: 13
225 Phe Pro Pro Gly Val Glu Glu Pro Asp Val Gly Pro Leu Pro Val Ser
226      1              5              10              15
228 Cys Ala Trp Glu Ser Gly Met Lys Arg His
229              20              25
232 <210> SEQ ID NO: 14
233 <211> LENGTH: 27
234 <212> TYPE: PRT
235 <213> ORGANISM: Unknown Organism
237 <220> FEATURE:
238 <223> OTHER INFORMATION: Description of Unknown Organism: PEST example
239     sequence
241 <400> SEQUENCE: 14
242 Phe Leu Ala Glu Val Glu Glu Gln Asp Val Ala Ser Leu Pro Leu Ser
243      1              5              10              15
245 Cys Ala Cys Glu Ser Gly Ile Glu Tyr Pro Ala
246              20              25
249 <210> SEQ ID NO: 15
250 <211> LENGTH: 25
251 <212> TYPE: PRT
252 <213> ORGANISM: Artificial Sequence
254 <220> FEATURE:
255 <223> OTHER INFORMATION: Description of Artificial Sequence: consensus
256     sequence
258 <220> FEATURE:
259 <221> NAME/KEY: MOD_RES
260 <222> LOCATION: (2)..(3)
261 <223> OTHER INFORMATION: any amino acid
263 <220> FEATURE:
264 <221> NAME/KEY: MOD_RES
265 <222> LOCATION: (10)..(12)
266 <223> OTHER INFORMATION: any amino acid
268 <220> FEATURE:
269 <221> NAME/KEY: MOD_RES
270 <222> LOCATION: (15)
271 <223> OTHER INFORMATION: any amino acid
273 <220> FEATURE:
274 <221> NAME/KEY: MOD_RES
275 <222> LOCATION: (19)

```

RAW SEQUENCE LISTING

DATE: 07/05/2001

PATENT APPLICATION: US/09/880,149

TIME: 13:34:53

Input Set : A:\2757-5.app.txt

Output Set: N:\CRF3\07032001\I880149.raw

276 <223> OTHER INFORMATION: any amino acid
 278 <220> FEATURE:
 279 <221> NAME/KEY: MOD_RES
 280 <222> LOCATION: (23)..(24)
 281 <223> OTHER INFORMATION: any amino acid
 283 <220> FEATURE:
 284 <221> NAME/KEY: MOD_RES
 285 <222> LOCATION: (25)
 286 <223> OTHER INFORMATION: optional amino acid
 288 <400> SEQUENCE: 15
 W--> 289 Phe Xaa Xaa Glu Val Glu Glu Gln Asp Xaa Xaa Xaa Leu Pro Xaa Ser
 290 1 5 10 15
 W--> 292 Cys Ala Xaa Glu Ser Gly Xaa Xaa Xaa
 293 20 25
 296 <210> SEQ ID NO: 16
 297 <211> LENGTH: 26
 298 <212> TYPE: PRT
 299 <213> ORGANISM: Artificial Sequence
 301 <220> FEATURE:
 302 <223> OTHER INFORMATION: Description of Artificial Sequence: consensus
 303 sequence
 305 <220> FEATURE:
 306 <221> NAME/KEY: MOD_RES
 307 <222> LOCATION: (2)..(3)
 308 <223> OTHER INFORMATION: any amino acid
 310 <220> FEATURE:
 311 <221> NAME/KEY: MOD_RES
 312 <222> LOCATION: (10)..(12)
 313 <223> OTHER INFORMATION: any amino acid
 315 <220> FEATURE:
 316 <221> NAME/KEY: MOD_RES
 317 <222> LOCATION: (15)
 318 <223> OTHER INFORMATION: any amino acid
 320 <220> FEATURE:
 321 <221> NAME/KEY: MOD_RES
 322 <222> LOCATION: (19)
 323 <223> OTHER INFORMATION: any amino acid
 325 <220> FEATURE:
 326 <221> NAME/KEY: MOD_RES
 327 <222> LOCATION: (23)..(24)
 328 <223> OTHER INFORMATION: any amino acid
 330 <220> FEATURE:
 331 <221> NAME/KEY: MOD_RES
 332 <222> LOCATION: (25)
 333 <223> OTHER INFORMATION: optional amino acid
 335 <220> FEATURE:
 336 <221> NAME/KEY: MOD_RES
 337 <222> LOCATION: (26)
 338 <223> OTHER INFORMATION: any amino acid

PyL

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
 Sequence Listing to ensure that a corresponding explanation is presented in the <220> to
 <223> fields of each sequence which presents at least one n or Xaa.

VERIFICATION SUMMARY

DATE: 07/05/2001

PATENT APPLICATION: US/09/880,149

TIME: 13:34:54

Input Set : A:\2757-5.app.txt

Output Set: N:\CRF3\07032001\I880149.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15
L:341 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16
L:388 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17
L:729 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39
L:819 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44
L:865 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47
L:974 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53